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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,697	09/30/2003	Rahul Gupta	2003P12643US	8145

7590 12/28/2005  
EPPING, HERMANN, FISCHER  
Ridlerstrasse 55  
Munich, 80339  
GERMANY

EXAMINER

THOMPSON, CAMIE S

ART UNIT	PAPER NUMBER
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1774

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/676,697

Applicant(s)

GUPTA ET AL.

Examiner

Camie S. Thompson

Art Unit

1774

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on Election filed 10/14/05.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14 and 24-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 and 24-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
- Paper No(s)/Mail Date 4/14/05.

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. Applicant's election of Group I, claims 1-14 and 24-28, drawn to an emissive polymer layer and an organic light emitting diode with traverse is acknowledged. Applicant argues that all claims can be searched without serious burden to the Examiner. Although groups I and II are related and feature an emissive polymer layer, the method to form an emissive polymer layer is a different invention from that of the organic light emitting diode comprising the emissive polymer layer. The inventive portion of the inventions is different in each instance. This creates a schism in thought and results in prosecution going in two different directions within one application. This becomes burdensome rapidly. The restriction is maintained.

The requirement for restriction is still deemed proper and is therefore made **FINAL**.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-14 and 24-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Burroughs et al., U.S. Patent Number 6,897,473.

Art Unit: 1774


Burroughs discloses an electroluminescent device comprising a first charge carrier injecting layer that may be a positive charge carrier transport layer which is located between the light-emissive layer and an electrode layer, or may be an anode electrode layer. Additionally, the reference discloses that the device comprises a second charge carrier injecting layer maybe a negative charge carrier transport layer which is located between the light-emissive layer and a cathode layer. Also, the reference discloses that the light emissive layer comprises first, second and third components as per instant claim 1 (see column 5, lines 1-3 and column 6, lines 58-68). Column 6, lines 30-57 of the Burroughs reference discloses that the first, second and third components each may be an organic material, suitably a polymer such as PPV or polyfluorene. Also, Burroughs discloses that alternative materials such as small molecules, Alq<sub>3</sub>, may be present in the emissive layer. Small molecules such as Alq<sub>3</sub> and/or conjugated polymers act as electron/hole traps in the emissive layer. The reference also discloses that the first component has a LUMO energy level between the LUMO energy levels of the second and third components in order to suitably assist the movement of negative charge carriers between the second and third components. Also, it disclosed in the reference that the second component has a LUMO energy level above that of the third component (see column 7, lines 55-58). Also, it is disclosed in column 7, lines 62-68 of the Burroughs reference that either or both of the first and second components are preferably materials that are emissive in the visible and/or near infrared and/or near ultraviolet regions of the spectrum. Table 1 of the reference demonstrates the HOMO positions for the plurality of host components.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The

Art Unit: 1774

examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L Dye, can be reached at (571) 272-3186. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
RENA DYE  
SUPERVISORY PATENT EXAMINER  
A.U. 1774 12/22/05